

**Expand-O-Flash® Tab Caulking**

Version 3.1

Revision Date 05/12/2020

Print Date 05/12/2020

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade name : Expand-O-Flash® Tab Caulking

## Manufacturer or supplier's details

Company : Johns Manville  
Address : P.O. Box 5108  
Denver, CO USA 80127  
Telephone : +1-303-978-2000  
Emergency telephone : 24-Hour Number: 1-800-424-9300 (CHEMTREC)  
number

Company : Johns Manville Canada Inc.  
Address : 5301 42 Avenue  
Innisfail, AB Canada T4G 1A2  
Telephone : +1-303-978-2000  
Emergency telephone : 24-Hour Number: 1-800-424-9300 (CHEMTREC)  
number

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

Prepared by : productsafety@jm.com

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)**

Respiratory sensitisation : Category 1  
Skin sensitisation : Category 1  
Germ cell mutagenicity : Category 1B  
Carcinogenicity : Category 1A

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H340 May cause genetic defects.  
H350 May cause cancer.

Precautionary statements : **Prevention:**

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P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P281 Use personal protective equipment as required.  
 P285 In case of inadequate ventilation wear respiratory protection.

**Response:**

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P363 Wash contaminated clothing before reuse.  
 P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
limestone	1317-65-3	>= 10 - <= 30
solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 3 - <= 7
carbon black	1333-86-4	>= 1 - <= 5
solvent naphtha (petroleum), light arom.	64742-95-6	>= 0.5 - <= 1.5
1,2,4-trimethylbenzene	95-63-6	>= 0.5 - <= 1.5
4,4'-methylenediphenyl diisocyanate	101-68-8	>= 0.5 - <= 1.5
isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	>= 0.1 - <= 1
1,3,5-trimethylbenzene	108-67-8	>= 0.1 - <= 1
quartz (SiO <sub>2</sub> )	14808-60-7	>= 0.1 - <= 1
methylenediphenyl diisocyanate	26447-40-5	>= 0.1 - <= 1

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**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.  
If not breathing, give artificial respiration.  
Move to fresh air.  
If breathing is difficult, give oxygen.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before reuse.  
Destroy contaminated shoes.
- In case of eye contact : Remove contact lenses.  
Immediately flush eye(s) with plenty of water.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth.  
If swallowed, call a poison control centre or doctor immediately.
- Most important symptoms and effects, both acute and delayed : Irritation

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Dry sand  
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon oxides  
hydrogen cyanide  
isocyanates  
nitrogen oxides
- Specific extinguishing methods : Standard procedure for chemical fires.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must

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be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Use only in area provided with appropriate exhaust ventilation.
- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.
- Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Further information on storage stability : Stable at normal ambient temperature and pressure.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
limestone	1317-65-3	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA
		TWA (respirable)	5 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
carbon black	1333-86-4	TWA	3.5 mg/m <sup>3</sup>	ACGIH
		TWA	3.5 mg/m <sup>3</sup>	NIOSH REL
		TWA	3.5 mg/m <sup>3</sup>	OSHA
		TWA	0.1 mg/m <sup>3</sup> (PAHs)	NIOSH REL
		TWA (inhalable fraction)	3 mg/m <sup>3</sup>	ACGIH
		TWA	25 ppm 125 mg/m <sup>3</sup>	NIOSH REL
1,2,4-trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m <sup>3</sup>	NIOSH REL
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	25 ppm	ACGIH
		TWA	0.005 ppm	ACGIH
		TWA	0.005 ppm 0.05 mg/m <sup>3</sup>	NIOSH REL
		C	0.02 ppm 0.2 mg/m <sup>3</sup>	NIOSH REL
		C	0.02 ppm 0.2 mg/m <sup>3</sup>	OSHA
		TWA	25 ppm 125 mg/m <sup>3</sup>	NIOSH REL
1,3,5-trimethylbenzene	108-67-8	TWA	25 ppm 125 mg/m <sup>3</sup>	NIOSH REL
crystalline silica	14808-60-7	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m <sup>3</sup>	OSHA
		TWA (Respirable fraction)	0.025 mg/m <sup>3</sup>	ACGIH
		TWA (respirable)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA
		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA
		TWA (Respirable dust)	0.05 mg/m <sup>3</sup>	NIOSH REL
		TWA (Respirable dust)	0.05 mg/m <sup>3</sup>	OSHA

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### Personal protective equipment

- Respiratory protection : If used and stored as directed, no special protective equipment is necessary.  
 General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection  
 Material : Protective gloves
- Remarks : Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Eye protection : Tightly fitting safety goggles  
 Face-shield
- Skin and body protection : If used and stored as directed, no special protective equipment is necessary.
- Protective measures : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
 When using do not eat or drink.  
 When using do not smoke.  
 Wash hands before breaks and at the end of workday.  
 Written instructions for handling must be available at the work place.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Colour : black
- Odour : mild
- Odour Threshold : No data available
- pH : No data available

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Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: < 1
Flammability (solid, gas)	: not auto-flammable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density	: 1.1344
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat
Incompatible materials	: Alcohols Amines Strong acids Strong bases Oxidizing agents Water Moisture

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Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
 carbon oxides  
 Hydrogen cyanide (hydrocyanic acid)  
 nitrogen oxides  
 Sulphur oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
 Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 10 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
 Method: Calculation method

#### Acute toxicity

##### Components:

##### **limestone:**

Acute oral toxicity : LD0 (Rat, female): > 2,000 mg/kg  
 Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rat, male and female): > 3 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
 Method: OECD Test Guideline 402

#### Acute toxicity

##### **carbon black:**

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg  
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5.0 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Method: Expert judgement



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Assessment: The substance or mixture has no acute dermal toxicity

### Acute toxicity

#### solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
 Method: OECD Test Guideline 401  
 Remarks: No mortality was observed.  
 Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,610 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Method: OECD Test Guideline 403  
 Remarks: No mortality was observed.  
 Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 Remarks: No mortality was observed.  
 Information given is based on data obtained from similar substances.

### Acute toxicity

#### 1,2,4-trimethylbenzene:

Acute oral toxicity : LD50 (Rat, male): 6,000 mg/kg  
 Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

Acute inhalation toxicity : LC50 (Rat, male and female): 10.2 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Remarks: No mortality was observed.  
 Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat, male and female): 3,440 mg/kg  
 Remarks: No mortality was observed.  
 Information given is based on data obtained from similar substances.

### Acute toxicity

#### 4,4'-methylenediphenyl diisocyanate:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2.24 mg/l  
 Exposure time: 1 h  
 Test atmosphere: dust/mist  
 Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 9,400 mg/kg  
 Method: OECD Test Guideline 402

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**Acute toxicity****isocyanic acid, polymethylenepolyphenylene ester:**

Acute oral toxicity : LD50 (Rat): &gt; 2,000 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 9,400 mg/kg  
Method: OECD Test Guideline 402**Acute toxicity****quartz (SiO<sub>2</sub>):**

Acute oral toxicity : LD50 (Rat): &gt; 22,500 mg/kg

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

**Acute toxicity****methylenediphenyl diisocyanate:**

Acute oral toxicity : LD50 (Rat, male and female): &gt; 2,000 mg/kg

Acute inhalation toxicity : Remarks: Harmful by inhalation.

Acute dermal toxicity : LD50 Dermal (Rat, male): > 9,400 mg/kg  
Method: OECD Test Guideline 402**Skin corrosion/irritation****Components:****solvent naphtha (petroleum), light arom.:**

Result: Skin irritation

**Skin corrosion/irritation****1,2,4-trimethylbenzene:**

Result: Skin irritation

**Skin corrosion/irritation****4,4'-methylenediphenyl diisocyanate:**

Species: Rabbit

Method: Draize Test

Result: Mild skin irritant

Species: Human

Result: irritating

**Skin corrosion/irritation****isocyanic acid, polymethylenepolyphenylene ester:**

Species: Rabbit

Result: Skin irritation

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**Skin corrosion/irritation****methylenediphenyl diisocyanate:**

Assessment: Irritating to skin.

Result: Skin irritation

**Serious eye damage/eye irritation****Components:****1,2,4-trimethylbenzene:**

Result: irritating

**Serious eye damage/eye irritation****4,4'-methylenediphenyl diisocyanate:**

Species: Rabbit

Result: Moderate eye irritation

Method: Draize Test

Species: Human

Result: irritating

**Serious eye damage/eye irritation****isocyanic acid, polymethylenepolyphenylene ester:**

Species: Rabbit

Result: Eye irritation

**Serious eye damage/eye irritation****methylenediphenyl diisocyanate:**

Result: Eye irritation

Assessment: Irritating to eyes.

**Respiratory or skin sensitisation****Product:**

Remarks: May cause sensitisation of susceptible persons by skin contact or by inhalation of aerosol or dust.

**Respiratory or skin sensitisation****Components:****4,4'-methylenediphenyl diisocyanate:**

Exposure routes: Dermal

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

Result: positive

Exposure routes: Inhalation

Species: Guinea pig

Assessment: May cause sensitisation by inhalation.

Result: positive

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### Respiratory or skin sensitisation

#### isocyanic acid, polymethylenepolyphenylene ester:

Exposure routes: Dermal

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

Result: positive

Exposure routes: Inhalation

Species: Guinea pig

Assessment: May cause sensitisation by inhalation.

Result: positive

### Respiratory or skin sensitisation

#### methylenediphenyl diisocyanate:

Result: May cause sensitisation by skin contact.

Result: May cause sensitisation by inhalation.

### Carcinogenicity

#### Components:

#### methylenediphenyl diisocyanate:

Carcinogenicity - : Limited evidence of a carcinogenic effect.

Assessment

<b>IARC</b>	Group 1: Carcinogenic to humans	
	crystalline silica	14808-60-7
	Group 2B: Possibly carcinogenic to humans	
	carbon black	1333-86-4
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA (29 CFR 1910 Subpart Z, Toxic and Hazardous Substances).	
<b>NTP</b>	Known to be human carcinogen	
	crystalline silica	14808-60-7

### STOT - single exposure

#### Components:

#### solvent naphtha (petroleum), light arom.:

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

### STOT - single exposure

#### 1,2,4-trimethylbenzene:

Target Organs: Respiratory Tract

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Assessment: May cause respiratory irritation.

**STOT - single exposure****4,4'-methylenediphenyl diisocyanate:**

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

**STOT - single exposure****isocyanic acid, polymethylenepolyphenylene ester:**

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

**STOT - single exposure****methylenediphenyl diisocyanate:**

Exposure routes: inhalation (dust/mist/fume)

Assessment: May cause respiratory irritation.

**STOT - repeated exposure****Components:****4,4'-methylenediphenyl diisocyanate:**

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause damage to organs through prolonged or repeated exposure.

**STOT - repeated exposure****isocyanic acid, polymethylenepolyphenylene ester:**

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: Causes damage to organs through prolonged or repeated exposure.

**STOT - repeated exposure****methylenediphenyl diisocyanate:**

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity****Components:****solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

**1,2,4-trimethylbenzene:**

May be fatal if swallowed and enters airways.

**Further information****Product:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**solvent naphtha (petroleum), light arom.:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l  
 End point: mortality  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 4.5 mg/l  
 aquatic invertebrates  
 End point: Immobilization  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

Toxicity to algae : NOELR (Pseudokirchneriella subcapitata (algae)): 0.5 mg/l  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

EL50 (Pseudokirchneriella subcapitata (algae)): 3.1 mg/l  
 End point: see user defined free text  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

Toxicity to daphnia and other : NOELR (Daphnia magna (Water flea)): 2.6 mg/l  
 aquatic invertebrates  
 (Chronic toxicity)  
 Exposure time: 21 d  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211

**1,2,4-trimethylbenzene:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l  
 End point: mortality  
 Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 3.6 mg/l  
 aquatic invertebrates  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (green algae): 2.356 mg/l  
 Exposure time: 96 h  
 Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value: 0.396 mg/l  
 End point: mortality  
 Exposure time: 30 d  
 Remarks: The value is given based on a SAR/AAR approach

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using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Chronic Toxicity Value (Daphnia sp. (water flea)): 0.367 mg/l  
 End point: mortality  
 Exposure time: 16 d  
 Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

### quartz (SiO<sub>2</sub>):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l  
 Exposure time: 72 h

### Persistence and degradability

#### Components:

#### **solvent naphtha (petroleum), light arom.:**

Biodegradability : Result: Inherently biodegradable.

#### **1,2,4-trimethylbenzene:**

Biodegradability : Result: Biodegradable

### Bioaccumulative potential

#### Components:

#### **1,2,4-trimethylbenzene:**

Partition coefficient: n-octanol/water : log Pow: 3.63

#### **4,4'-methylenediphenyl diisocyanate:**

Partition coefficient: n-octanol/water : log Pow: 4.51 (20 °C)  
 pH: 7

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : Very toxic to aquatic life.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

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### SECTION 14. TRANSPORT INFORMATION

#### International transport regulations

Land transport

USDOT: Not classified as a dangerous good under transport regulations

TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

### SECTION 15. REGULATORY INFORMATION

#### TSCA list

TSCA - 5(a) Significant New Use Rule List of Chemicals : No substances are subject to a Significant New Use Rule.

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D) : No substances are subject to TSCA 12(b) export notification requirements.

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
4,4'-methylenediphenyl diisocyanate	101-68-8	5000	*
naphthalene	91-20-3	100	*
xylene	1330-20-7	100	*
ethylbenzene	100-41-4	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)

**SARA 311/312 Hazards** : Respiratory or skin sensitisation  
 Germ cell mutagenicity  
 Carcinogenicity

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

4,4'-methylenediphenyl diisocyanate    101-68-8    0.5 - 1.5 %



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The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

4,4'-methylenediphenyl diisocyanate 101-68-8

**California Prop. 65**

 **WARNING:** This product can expose you to chemicals including cumene, which is/are known to the State of California to cause cancer, and diisodecyl phthalate, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**The components of this product are reported in the following inventories:**

TSCA : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

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**SECTION 16. OTHER INFORMATION****Further information**

Revision Date : 05/12/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.